

# District 08 Mobility Performance

2022 QUARTER TWO

**DEPARTMENT OF TRANSPORTATION**

August 4, 2022  
DIVISION OF OPERATIONS  
TMS SUPPORT

# District 08 Mobility Performance Report

---

2022 QUARTER TWO

## EXECUTIVE SUMMARY

### Overview

Caltrans District 8 covers approximately 28,650 square miles of land, making it the largest district in California. District 8 consists of two counties: San Bernardino and Riverside. Both counties are in Southern California and part of the Inland Empire. Riverside County has an estimated population of 2.5 million residents while San Bernardino County is estimated at 2.2 million residents. With a total of 4.7 million residents, District 8 comprises of twelve percent of California's total population.

The quarterly Mobility Performance Report compares the data from the current quarter with over a year ago as well as the previous quarter, for the following performance measures:

- Vehicle Miles of Travel (VMT)
- Vehicle Hours of Delay (VHD)
- Lost Lane Miles (LLM)
- Delay by County and Route
- Detector Health
- Bottleneck Locations

Vehicle Detector Stations installed on urban-area freeways are continuously collect data and are strategically placed at locations where congestion is regularly experienced. The MPR uses the data collected from Caltrans Performance Measurement System (PeMS) to produce this report and conduct traffic studies. This report presents congestion information at two speed thresholds: delay from vehicles traveling below 35 miles per hour (mph), and delay from vehicles traveling below 60 mph. The 35-mph threshold represents severe congestion, while delay at 60 mph represents all congestion. These thresholds are set by Caltrans and are based upon engineering experience and District input.

## FINDINGS

Vehicle Miles Traveled (VMT) in District 8 during the second quarter of 2022 was 5.34 billion miles, which was a 3.1 percent increase when compared to VMT from a year ago and a 5.2 percent increase from the previous quarter.

In the second quarter of 2022, at the 35mph speed threshold, Riverside County exhibited 1.9 million vehicle hours of delay followed by San Bernardino County at 1.32 million. Total delay in District 8 equaled 3.2 million VHD for the 35mph speed threshold. This was a 2.8 percent increase from the previous quarter, and a 4.9 percent decrease when compared to the same quarter over a year ago. The 60-mph speed threshold saw a different trend, during the second quarter of 2022, total delay equaled 8.4 million VHD, which was an increase in delay by 1.7 percent from last quarter as well as a 0.9 percent increase in delay for the same quarter over a year ago.

The busiest day of the week as far as congestion for the second quarter of 2022 was Friday with 127,000 hours of delay for speed under 60 mph followed by Thursday at 111,000 hours of delay.

### Top Ten Bottlenecks for the Second Quarter of 2022

Rank	County	Location Name	Shift	Fwy	Abs PM	Prefix	CA PM	Latitude	Longitude	# Days Active	Avg Extent (Miles)	Total Delay (veh-hrs)	Total Duration (Hours)
1	Riverside	Winchester Road	PM	I15-N	61.32	-	6.8	33.52	-117.16	64	4.28	172,321.60	275.83
2	San Bernardino	Jurupa	PM	I15-S	107.73	-	.969	34.05	-117.55	64	2.40	79,817.70	228.92
3	Riverside	Pigeon Pass	PM	SR60-E	54.63	-	14.509	33.94	-117.26	64	3.63	71,993.00	201.92
4	San Bernardino	4th Street	PM	I15-N	109.97	-	3.2	34.08	-117.54	64	1.10	49,480.80	235.33
5	San Bernardino	Haven Ave	PM	I10-E	54.99	-	8.22	34.07	-117.57	55	2.17	42,716.60	156.00
6	Riverside	Rte 79 / Rte 15	PM	I15-N	58.02	-	3.5	33.48	-117.14	52	2.63	42,434.30	95.75
7	San Bernardino	0.5 miles west of Milliken	PM	I210-E	59.84	-	7.4	34.14	-117.57	40	6.09	40,918.40	70.25
8	San Bernardino	3.3 miles south of Oak Hill	AM	I15-S	134.66	R	25.3	34.34	-117.46	54	3.33	37,895.60	125.17
9	Riverside	Pierce	AM	SR91-W	48.15	-	10.724	33.90	-117.49	63	1.84	35,815.60	210.67
10	Riverside	El Cerrito Rd	PM	I15-S	92.19	-	37.702	33.83	-117.53	45	1.78	35,626.50	156.50

## **PROJECT STATUS**

Some of the following District 8 projects which are separated by county are currently in construction for the year of 2022. These projects will relieve congestion in District 8 once complete however, during the construction phase there might be an increase in delay during off-peak periods due to lane closures.

### **Riverside County:**

**RIV – Rte. 74: Location Lake Elsinore from RIV County Line to Monte Vista St  
EA: 1C8504, PM: 0.00 to 5.80 – Widen Existing Lanes to provide 12’ Lanes**

**RIV – Rte. 15: Location - City of Lake Elsinore on I-15 From 1.6 mile south of to 0.4-mile North of Railroad Canyon Rd, EA: 0A4414**

Postmile 17.60 to 19.60 - Freeway and Bridge widening, JPCP, HMA, Retaining Walls, Ramp Modifications, Local Street Improvements.

**RIV – Rte. 15: Location – Murrieta from 0.3 miles south of to 0.6 miles north of California Oaks Ave. Undercrossing, EA: 0A4904**

Postmile 10.30 to 10.90 – Bridge widening, Traffic and Drainage Improvements.

**RIV – Rte 15: Location – SR74 to SR-60 and I-215 to SR-74, EA: 0J0804**

I-15 Corridor Improvement Project to add two Toll Express Lane each direction from Cajalco Road to State Route 60, widen bridges and add sound wall.

**RIV - Rte 15: Location - Interstate 15/Cajalco Road Interchange, EA: 0J6104**

Postmile 36.40 to 37.60 - Interchange Improvements & Reconstruction

**RIV- Rte 60: Location – City of Beaumont, Gilman Springs Road to 1.37 miles west of Jack Rabbit Trail EA: 0N69U4**

Postmile 22.10 to 26.60 – Construct a Truck Climbing Lane and Truck Descending Lane

**RIV – Rte 60: Location – City of Beaumont, Potrero Blvd**

Postmile 28.80 to 30.20 – New Bridge and Highway widening.

**San Bernardino County:**

**SBD – Rte 10: Location – LA/SBD county line to 0.2 miles west of Cherry EA: 0C2514**

Postmile 0.00 to 13.20, Widen Express Lanes (Phase 1)

**SBD – Rte 210: Location – Highland Ave to San Bernardino Ave EA: 0C70U4**

Postmile 25.00 to 33.20, Widen Freeway add one lane in each direction.

**SBD – Rte 60: Locations – Central Avenue EA: 0C8704**

Postmile 2.08 to 2.80, Central Avenue Ramp Improvement

**SBD – Rte 15: Location - Limonite Ave/I-15, EA: 0E1504**

Postmile 46.70 to 49.70, Limonite Avenue at I-15 interchange Improvement Project, in city of Eastvale and Jurupa Valley.

**SBD – Rte 60: Location – Near Chino and Various Locations from 0.1 mile west of Pipeline Ave OC to 0.1 Mile East of Benson Ave. EA: 0F0304**

Postmile 0.07 to 3.00, Bridge Replacement, Pipeline Ave, Monte Vista Ave, Benson Ave.

**SBD – Rte 10: Location – Colton at Santa Ana River Bridge EA: 0Q9104**

Postmile 23.80 to 23.80, Bridge Rehabilitation and Seismic Retrofit.

**SBD – Rte 10: Location – Alabama street to 0.2 Miles East of County Line Road, EA 384234**

Postmile: 29.40 to 39.20, Install Fiber Optic System and Modify Electrical System

## Quarterly Mobility Statistics

Measure	Graph	Percentage Change							
Vehicle Miles of Travel (VMT)	<p>Miles (Billions)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>5.17</td></tr> <tr><td>2022</td><td>5.34</td></tr> </table>	Year	Q2	2021	5.17	2022	5.34	Over one year ago	Over last quarter
		Year	Q2						
		2021	5.17						
2022	5.34								
3.1%	5.2%								
		↑	↑						
Total Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>3.4</td></tr> <tr><td>2022</td><td>3.2</td></tr> </table>	Year	Q2	2021	3.4	2022	3.2	Over one year ago	Over last quarter
		Year	Q2						
		2021	3.4						
2022	3.2								
-4.9%	2.8%								
		↓	↑						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 35 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>42</td></tr> <tr><td>2022</td><td>41</td></tr> </table>	Year	Q2	2021	42	2022	41	Over one year ago	Over last quarter
		Year	Q2						
		2021	42						
2022	41								
-1.6%	-3.4%								
		↓	↓						
Total Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Millions)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>8.4</td></tr> <tr><td>2022</td><td>8.4</td></tr> </table>	Year	Q2	2021	8.4	2022	8.4	Over one year ago	Over last quarter
		Year	Q2						
		2021	8.4						
2022	8.4								
0.9%	1.7%								
		↑	↑						
Average Non-Holiday Weekday Vehicle Hours of Delay (VHD) at 60 mph	<p>Hours (Thousands)</p> <table border="1"> <tr><th>Year</th><th>Q2</th></tr> <tr><td>2021</td><td>104</td></tr> <tr><td>2022</td><td>108</td></tr> </table>	Year	Q2	2021	104	2022	108	Over one year ago	Over last quarter
		Year	Q2						
		2021	104						
2022	108								
4%	-2.8%								
		↑	↓						

Measure	Graph	Percentage Change	
Average Vehicle Hours of Delay by Day of Week at 60 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Saturday -18.1% ↓	Friday -13.5% ↓
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Weekdays		Largest Magnitude Weekday Decrease over one year ago	Largest Magnitude Weekday Decrease over last quarter
		6 PM -23.1% ↓	6 PM -28.1% ↓
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Saturdays		Largest Magnitude Saturday Decrease over one year ago	Largest Magnitude Saturday Decrease over last quarter
		2 PM -30.3% ↓	6 PM -25% ↓
Average Vehicle Hours of Delay by Hour of Day at 35 mph, Sundays/Holidays		Largest Magnitude Sun./Holiday Decrease over one year ago	Largest Magnitude Sun./Holiday Decrease over last quarter
		1 PM -19.2% ↓	4 PM -31.9% ↓
		Largest Magnitude Increase over one year ago	Largest Magnitude Increase over last quarter
		Monday 13.6% ↑	Monday 10.8% ↑
		Largest Magnitude Weekday Increase over one year ago	Largest Magnitude Weekday Increase over last quarter
		7 AM 30.9% ↑	12 PM 14.9% ↑
		Largest Magnitude Saturday Increase over one year ago	Largest Magnitude Saturday Increase over last quarter
		11 PM 53.6% ↑	1 PM 37.5% ↑
		Largest Magnitude Sun./Holiday Increase over one year ago	Largest Magnitude Sun./Holiday Increase over last quarter
		10 AM 60.6% ↑	1 PM 30.2% ↑

Measure	Graph	Percentage Change	
Total Vehicle Hours of Delay (VHD) by County at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Riverside -10% ↓	San Bernardino -0.4% ↓
Average Non-Holiday Weekday Equivalent Lost Lane Mile Hours at 35 mph		Largest Magnitude Decrease over one year ago	Largest Magnitude Decrease over last quarter
		Off-Peak Night -9% ↓	PM Peak -1% ↓
Average Number of Good and Bad Detectors		Change in Good over one year ago	Change in Good over last quarter
		-1% ↓	-7% ↓
		Change in Bad over one year ago	Change in Bad over last quarter
		6% ↑	16% ↑

Congestion by Route											
Route	County	Vehicle Hours of Delay at 35 mph			Difference 2022 Q2-2021 Q2		Difference 2022 Q2-2022 Q1		Rank		
		2021 Q2	2022 Q1	2022 Q2	Absolute	Percentage	Absolute	Percentage	2021 Q2	2022 Q1	2022 Q2
I215	Riverside	553,524	577,871	580,989	27,465	5.0%	3,118	0.5%	2	3	1
I15	San Bernardino	429,614	616,774	576,997	147,383	34.3%	-39,777	-6.4%	5	2	2
I15	Riverside	864,895	638,471	539,742	-325,153	-37.6%	-98,729	-15.5%	1	1	3
SR91	Riverside	536,104	324,734	426,989	-109,115	-20.4%	102,254	31.5%	3	5	4
I10	San Bernardino	491,171	377,724	408,368	-82,803	-16.9%	30,644	8.1%	4	4	5
SR60	Riverside	155,347	236,758	279,545	124,198	79.9%	42,787	18.1%	7	6	6
I210	San Bernardino	223,099	222,130	206,727	-16,372	-7.3%	-15,403	-6.9%	6	7	7
I10	Riverside	2,902	33,588	77,110	74,208	2557.1%	43,522	129.6%	12	10	8
I215	San Bernardino	53,437	69,421	76,012	22,576	42.2%	6,591	9.5%	8	8	9
SR60	San Bernardino	33,267	40,011	55,937	22,670	68.1%	15,926	39.8%	10	9	10
SR71	San Bernardino	46,521	3,672	150	-46,370	-99.7%	-3,522	-95.9%	9	11	11
SR71	Riverside	3,551	18	0	-3,551	-100.0%	-18	-100.0%	11	12	12
<b>TOTALS</b>		<b>3,393,431</b>	<b>3,141,172</b>	<b>3,228,566</b>	<b>-164,865</b>	<b>-4.9%</b>	<b>87,394</b>	<b>2.8%</b>			

The Congestion by Route table shows that congestion has increased by 2.8% from the previous quarter but has decreased by 4.9% from one year ago.

I-10 Riverside County showed a major increase in delay between 2021 Q2 and 2022 Q2, this was due to the Traffic Monitoring Stations being repaired in that area which resulted in more delay being captured by the stations.